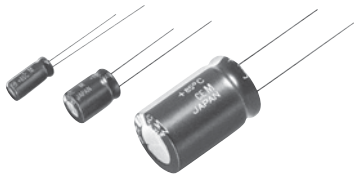
# Radial Lead Type

Series : **M** Type : **A**



## Features

- Endurance : 85 °C 2000 h
- Smaller than series SU
- RoHS compliant

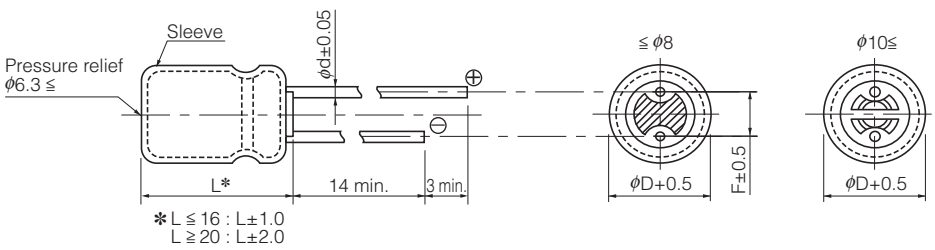
## Specifications

| | | |
|---|---|---|
| Category temperature range | –40 °C to + 85 °C | –25 °C to +85 °C |
| Rated voltage range | 6.3 V.DC to 100 V.DC | 160 V.DC to 450 V.DC |
| Capacitance range | 2.2 µF to 22000 µF | 2.2 µF to 470 µF |
| Capacitance tolerance | ±20 % (120 Hz/+20 °C) | |
| Leakage current | I ≦ 0.01 CV or 3 (µA) After 2 minutes (Whichever is greater) | I ≦ 0.06 CV +10 (µA) After 2 minutes |
| Dissipation factor (tan $\delta$) | Please see the attached characteristics list | |
| Endurance | After applying rated working voltage for 2000 hours at +85°C±2 °C, when the capacitors are restored to 20 °C, capacitors shall meet the following limits. | |
| | Capacitance change | Within ±20 % of the initial value |
| | tan $\delta$ | ≦ 150 % of the initial limit |
| | DC leakage current | Within the initial limit |
| Shelf life | After storage for 1000 hours at +85 °C±2 °C with no voltage applied and then being stabilized at +20 °C, capacitors shall meet the limits specified in Endurance. (With voltage treatment) | |

## Frequency correction factor for ripple current

| Frequency (Hz) | 50, 60 | 120 | 1 k | 10 k to |
|---|---|---|---|---|
| Correction factor | 0.70 | 1.00 | 1.30 | 1.70 |

## Dimensions




(Unit : mm)

| φD | 5 | 6.3 | 8 | 10 | 12.5 | 16 | 18 |
|---|---|---|---|---|---|---|---|
| φd | 0.5 | 0.5 | 0.6 | 0.6 | 0.6 | 0.8 | 0.8 |
| F | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 |

Design and specifications are each subject to change without notice. Ask factory for the current technical specifications before purchase and/or use.
Should a safety concern arise regarding this product, please be sure to contact us immediately.

## Characteristics list

Endurance : 85 °C 2000 h

| Rated voltage (V.DC) | Cap. (±20 %) (μF) | Case size (mm) | | Specification | | Lead length (mm) | | | | Part No. | Min. Packaging Q'ty | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Lead space | | | | | |
| | | φD | L | Ripple current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Lead dia. φd | Straight | Taping ✻B | Taping ✻i | | Straight leads (pcs) | Taping (pcs) |
| 6.3 | 220 | 5 | 11 | 240 | 0.28 | 0.5 | 2.0 | 5.0 | 2.5 | ECA0JM221( ) | 200 | 2000 |
| | 470 | 6.3 | 11.2 | 380 | 0.28 | 0.5 | 2.5 | 5.0 | 2.5 | ECA0JM471( ) | 200 | 2000 |
| | 1000 | 8 | 11.5 | 580 | 0.28 | 0.6 | 3.5 | 5.0 | | ECA0JM102( ) | 200 | 1000 |
| | 2200 | 10 | 16 | 890 | 0.30 | 0.6 | 5.0 | 5.0 | | ECA0JM222( ) | 200 | 500 |
| | 3300 | 10 | 20 | 1020 | 0.32 | 0.6 | 5.0 | 5.0 | | ECA0JM332( ) | 200 | 500 |
| | 4700 | 12.5 | 20 | 1170 | 0.34 | 0.6 | 5.0 | 5.0 | | ECA0JM472( ) | 200 | 500 |
| | 6800 | 12.5 | 25 | 1270 | 0.38 | 0.6 | 5.0 | 5.0 | | ECA0JM682( ) | 200 | 500 |
| | 10000 | 16 | 25 | 1450 | 0.46 | 0.8 | 7.5 | 7.5 | | ECA0JM103( ) | 100 | 250 |
| | 15000 | 16 | 31.5 | 1700 | 0.56 | 0.8 | 7.5 | | | ECA0JM153 | 100 | |
| | 22000 | 18 | 35.5 | 1900 | 0.70 | 0.8 | 7.5 | | | ECA0JM223 | 50 | |
| 10 | 330 | 6.3 | 11.2 | 330 | 0.24 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1AM331( ) | 200 | 2000 |
| | 1000 | 10 | 12.5 | 630 | 0.24 | 0.6 | 5.0 | 5.0 | | ECA1AM102( ) | 200 | 500 |
| | 2200 | 10 | 20 | 920 | 0.26 | 0.6 | 5.0 | 5.0 | | ECA1AM222( ) | 200 | 500 |
| | 3300 | 12.5 | 20 | 1090 | 0.28 | 0.6 | 5.0 | 5.0 | | ECA1AM332( ) | 200 | 500 |
| | 4700 | 12.5 | 25 | 1200 | 0.30 | 0.6 | 5.0 | 5.0 | | ECA1AM472( ) | 200 | 500 |
| | 6800 | 16 | 25 | 1400 | 0.34 | 0.8 | 7.5 | 7.5 | | ECA1AM682( ) | 100 | 250 |
| | 10000 | 16 | 31.5 | 1600 | 0.42 | 0.8 | 7.5 | | | ECA1AM103 | 100 | |
| | 15000 | 18 | 35.5 | 1850 | 0.52 | 0.8 | 7.5 | | | ECA1AM153 | 50 | |
| 16 | 10 | 5 | 11 | 30 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CM100( ) | 200 | 2000 |
| | 22 | 5 | 11 | 75 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CM220( ) | 200 | 2000 |
| | 33 | 5 | 11 | 110 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CM330( ) | 200 | 2000 |
| | 47 | 5 | 11 | 130 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CM470( ) | 200 | 2000 |
| | 100 | 5 | 11 | 180 | 0.20 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1CM101( ) | 200 | 2000 |
| | 220 | 6.3 | 11.2 | 280 | 0.20 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1CM221( ) | 200 | 2000 |
| | 470 | 8 | 11.5 | 440 | 0.20 | 0.6 | 3.5 | 5.0 | | ECA1CM471( ) | 200 | 1000 |
| | 1000 | 10 | 16 | 680 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA1CM102( ) | 200 | 500 |
| | 2200 | 12.5 | 20 | 1000 | 0.22 | 0.6 | 5.0 | 5.0 | | ECA1CM222( ) | 200 | 500 |
| | 3300 | 12.5 | 25 | 1200 | 0.24 | 0.6 | 5.0 | 5.0 | | ECA1CM332( ) | 200 | 500 |
| | 4700 | 16 | 25 | 1360 | 0.26 | 0.8 | 7.5 | 7.5 | | ECA1CM472( ) | 100 | 250 |
| | 6800 | 16 | 31.5 | 1600 | 0.30 | 0.8 | 7.5 | | | ECA1CM682 | 100 | |
| | 10000 | 18 | 35.5 | 1800 | 0.38 | 0.8 | 7.5 | | | ECA1CM103 | 50 | |
| 25 | 100 | 6.3 | 11.2 | 180 | 0.16 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1EM101( ) | 200 | 2000 |
| | 330 | 8 | 11.5 | 390 | 0.16 | 0.6 | 3.5 | 5.0 | | ECA1EM331( ) | 200 | 1000 |
| | 470 | 10 | 12.5 | 480 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA1EM471( ) | 200 | 500 |
| | 1000 | 10 | 20 | 850 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA1EM102( ) | 200 | 500 |
| | 2200 | 12.5 | 25 | 1200 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA1EM222( ) | 200 | 500 |
| | 3300 | 16 | 25 | 1300 | 0.20 | 0.8 | 7.5 | 7.5 | | ECA1EM332( ) | 100 | 250 |
| | 4700 | 16 | 31.5 | 1500 | 0.22 | 0.8 | 7.5 | | | ECA1EM472 | 100 | |
| | 6800 | 18 | 35.5 | 1750 | 0.26 | 0.8 | 7.5 | | | ECA1EM682 | 50 | |

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· Please refer to the page of “Taping dimensions”.

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## Characteristics list

Endurance : 85 °C 2000 h

| Rated voltage (V.DC) | Cap. (±20 %) (μF) | Case size (mm) | | Specification | | Lead length (mm) | | | | Part No. | Min. Packaging Q'ty | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Lead space | | | | | |
| | | φD | L | Ripple current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Lead dia. φd | Straight | Taping ✻B | Taping ✻i | | Straight leads (pcs) | Taping (pcs) |
| 35 | 47 | 5 | 11 | 130 | 0.14 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1VM470( ) | 200 | 2000 |
| | 100 | 6.3 | 11.2 | 210 | 0.14 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1VM101( ) | 200 | 2000 |
| | 220 | 8 | 11.5 | 350 | 0.14 | 0.6 | 3.5 | 5.0 | | ECA1VM221( ) | 200 | 1000 |
| | 330 | 10 | 12.5 | 440 | 0.14 | 0.6 | 5.0 | 5.0 | | ECA1VM331( ) | 200 | 500 |
| | 470 | 10 | 16 | 550 | 0.14 | 0.6 | 5.0 | 5.0 | | ECA1VM471( ) | 200 | 500 |
| | 1000 | 12.5 | 20 | 900 | 0.14 | 0.6 | 5.0 | 5.0 | | ECA1VM102( ) | 200 | 500 |
| | 2200 | 16 | 25 | 1250 | 0.16 | 0.8 | 7.5 | 7.5 | | ECA1VM222( ) | 100 | 250 |
| | 3300 | 16 | 31.5 | 1400 | 0.18 | 0.8 | 7.5 | | | ECA1VM332 | 100 | |
| | 4700 | 18 | 35.5 | 1600 | 0.20 | 0.8 | 7.5 | | | ECA1VM472 | 50 | |
| 50 | 2.2 | 5 | 11 | 20 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM2R2( ) | 200 | 2000 |
| | 3.3 | 5 | 11 | 35 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM3R3( ) | 200 | 2000 |
| | 4.7 | 5 | 11 | 45 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM4R7( ) | 200 | 2000 |
| | 10 | 5 | 11 | 65 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM100( ) | 200 | 2000 |
| | 22 | 5 | 11 | 100 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM220( ) | 200 | 2000 |
| | 33 | 5 | 11 | 110 | 0.12 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1HM330( ) | 200 | 2000 |
| | 47 | 6.3 | 11.2 | 130 | 0.12 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1HM470( ) | 200 | 2000 |
| | 100 | 8 | 11.5 | 250 | 0.12 | 0.6 | 3.5 | 5.0 | | ECA1HM101( ) | 200 | 1000 |
| | 220 | 10 | 12.5 | 400 | 0.12 | 0.6 | 5.0 | 5.0 | | ECA1HM221( ) | 200 | 500 |
| | 330 | 10 | 16 | 500 | 0.12 | 0.6 | 5.0 | 5.0 | | ECA1HM331( ) | 200 | 500 |
| | 470 | 10 | 20 | 650 | 0.12 | 0.6 | 5.0 | 5.0 | | ECA1HM471( ) | 200 | 500 |
| | 1000 | 12.5 | 25 | 1050 | 0.12 | 0.6 | 5.0 | 5.0 | | ECA1HM102( ) | 200 | 500 |
| | 2200 | 16 | 31.5 | 1300 | 0.14 | 0.8 | 7.5 | | | ECA1HM222 | 100 | |
| | 3300 | 18 | 35.5 | 1500 | 0.16 | 0.8 | 7.5 | | | ECA1HM332 | 50 | |
| 63 | 10 | 5 | 11 | 70 | 0.11 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1JM100( ) | 200 | 2000 |
| | 22 | 5 | 11 | 105 | 0.11 | 0.5 | 2.0 | 5.0 | 2.5 | ECA1JM220( ) | 200 | 2000 |
| | 33 | 6.3 | 11.2 | 130 | 0.11 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1JM330( ) | 200 | 2000 |
| | 47 | 6.3 | 11.2 | 160 | 0.11 | 0.5 | 2.5 | 5.0 | 2.5 | ECA1JM470( ) | 200 | 2000 |
| | 100 | 8 | 11.5 | 270 | 0.11 | 0.6 | 3.5 | 5.0 | | ECA1JM101( ) | 200 | 1000 |
| | 220 | 10 | 16 | 450 | 0.11 | 0.6 | 5.0 | 5.0 | | ECA1JM221( ) | 200 | 500 |
| | 330 | 10 | 20 | 550 | 0.11 | 0.6 | 5.0 | 5.0 | | ECA1JM331( ) | 200 | 500 |
| | 470 | 12.5 | 20 | 750 | 0.11 | 0.6 | 5.0 | 5.0 | | ECA1JM471( ) | 200 | 500 |
| | 1000 | 16 | 25 | 1100 | 0.11 | 0.8 | 7.5 | 7.5 | | ECA1JM102( ) | 100 | 250 |
| | 2200 | 18 | 35.5 | 1400 | 0.13 | 0.8 | 7.5 | | | ECA1JM222 | 50 | |

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## Characteristics list

Endurance : 85 °C 2000 h

| Rated voltage (V.DC) | Cap. (±20 %) (μF) | Case size (mm) | | Specification | | Lead length (mm) | | | | Part No. | Min. Packaging Q'ty | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Lead space | | | | | |
| | | φD | L | Ripple current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Lead dia. φd | Straight | Taping ✻B | Taping ✻i | | Straight leads (pcs) | Taping (pcs) |
| 100 | 2.2 | 5 | 11 | 30 | 0.10 | 0.5 | 2.0 | 5.0 | 2.5 | ECA2AM2R2( ) | 200 | 2000 |
| | 3.3 | 5 | 11 | 40 | 0.10 | 0.5 | 2.0 | 5.0 | 2.5 | ECA2AM3R3( ) | 200 | 2000 |
| | 4.7 | 5 | 11 | 50 | 0.10 | 0.5 | 2.0 | 5.0 | 2.5 | ECA2AM4R7( ) | 200 | 2000 |
| | 10 | 5 | 11 | 70 | 0.10 | 0.5 | 2.0 | 5.0 | 2.5 | ECA2AM100( ) | 200 | 2000 |
| | 22 | 6.3 | 11.2 | 115 | 0.10 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2AM220( ) | 200 | 2000 |
| | 33 | 8 | 11.5 | 145 | 0.10 | 0.6 | 3.5 | 5.0 | | ECA2AM330( ) | 200 | 1000 |
| | 47 | 8 | 11.5 | 180 | 0.10 | 0.6 | 3.5 | 5.0 | | ECA2AM470( ) | 200 | 1000 |
| | 100 | 10 | 16 | 350 | 0.10 | 0.6 | 5.0 | 5.0 | | ECA2AM101( ) | 200 | 500 |
| | 220 | 12.5 | 20 | 550 | 0.10 | 0.6 | 5.0 | 5.0 | | ECA2AM221( ) | 200 | 500 |
| | 330 | 12.5 | 25 | 700 | 0.10 | 0.6 | 5.0 | 5.0 | | ECA2AM331( ) | 200 | 500 |
| | 470 | 16 | 25 | 900 | 0.10 | 0.8 | 7.5 | 7.5 | | ECA2AM471( ) | 100 | 250 |
| | 1000 | 18 | 35.5 | 1300 | 0.10 | 0.8 | 7.5 | | | ECA2AM102 | 50 | |
| 160 | 2.2 | 6.3 | 11.2 | 53 | 0.16 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2CM2R2( ) | 200 | 2000 |
| | 3.3 | 6.3 | 11.2 | 66 | 0.16 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2CM3R3( ) | 200 | 2000 |
| | 4.7 | 6.3 | 11.2 | 78 | 0.16 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2CM4R7( ) | 200 | 2000 |
| | 10 | 10 | 12.5 | 105 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA2CM100( ) | 200 | 500 |
| | 22 | 10 | 16 | 175 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA2CM220( ) | 200 | 500 |
| | 33 | 10 | 20 | 235 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA2CM330( ) | 200 | 500 |
| | 47 | 12.5 | 20 | 320 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA2CM470( ) | 200 | 500 |
| | 100 | 12.5 | 25 | 515 | 0.16 | 0.6 | 5.0 | 5.0 | | ECA2CM101( ) | 200 | 500 |
| | 220 | 16 | 31.5 | 830 | 0.16 | 0.8 | 7.5 | | | ECA2CM221 | 100 | |
| | 330 | 18 | 31.5 | 1090 | 0.16 | 0.8 | 7.5 | | | ECA2CM331 | 50 | |
| | 470 | 18 | 40 | 1440 | 0.16 | 0.8 | 7.5 | | | ECA2CM471 | 50 | |
| 200 | 2.2 | 6.3 | 11.2 | 50 | 0.18 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2DM2R2( ) | 200 | 2000 |
| | 3.3 | 6.3 | 11.2 | 62 | 0.18 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2DM3R3( ) | 200 | 2000 |
| | 4.7 | 8 | 11.5 | 86 | 0.18 | 0.6 | 3.5 | 5.0 | | ECA2DM4R7( ) | 200 | 1000 |
| | 10 | 10 | 12.5 | 100 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2DM100( ) | 200 | 500 |
| | 22 | 10 | 20 | 180 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2DM220( ) | 200 | 500 |
| | 33 | 10 | 20 | 220 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2DM330( ) | 200 | 500 |
| | 47 | 12.5 | 20 | 300 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2DM470( ) | 200 | 500 |
| | 100 | 16 | 25 | 475 | 0.18 | 0.8 | 7.5 | 7.5 | | ECA2DM101( ) | 100 | 250 |
| | 220 | 18 | 31.5 | 835 | 0.18 | 0.8 | 7.5 | | | ECA2DM221 | 50 | |
| | 330 | 18 | 40 | 1140 | 0.18 | 0.8 | 7.5 | | | ECA2DM331 | 50 | |

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## Characteristics list

Endurance : 85 °C 2000 h

| Rated voltage (V.DC) | Cap. (±20 %) (μF) | Case size (mm) | | Specification | | Lead length (mm) | | | | Part No. | Min. Packaging Q'ty | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Lead space | | | | | |
| | | φD | L | Ripple current (120 Hz) (+85 °C) (mA r.m.s.) | tan δ (120 Hz) (+20 °C) | Lead dia. φd | Straight | Taping ✻B | Taping ✻i | | Straight leads (pcs) | Taping (pcs) |
| 250 | 2.2 | 6.3 | 11.2 | 50 | 0.18 | 0.5 | 2.5 | 5.0 | 2.5 | ECA2EM2R2( ) | 200 | 2000 |
| | 3.3 | 8 | 11.5 | 72 | 0.18 | 0.6 | 3.5 | 5.0 | | ECA2EM3R3( ) | 200 | 1000 |
| | 4.7 | 8 | 11.5 | 86 | 0.18 | 0.6 | 3.5 | 5.0 | | ECA2EM4R7( ) | 200 | 1000 |
| | 10 | 10 | 16 | 110 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2EM100( ) | 200 | 500 |
| | 22 | 10 | 20 | 180 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2EM220( ) | 200 | 500 |
| | 33 | 12.5 | 20 | 250 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2EM330( ) | 200 | 500 |
| | 47 | 12.5 | 25 | 330 | 0.18 | 0.6 | 5.0 | 5.0 | | ECA2EM470( ) | 200 | 500 |
| | 100 | 16 | 31.5 | 530 | 0.18 | 0.8 | 7.5 | | | ECA2EM101 | 100 | |
| | 220 | 18 | 40 | 930 | 0.18 | 0.8 | 7.5 | | | ECA2EM221 | 50 | |
| 350 | 2.2 | 8 | 11.5 | 55 | 0.20 | 0.6 | 3.5 | 5.0 | | ECA2VM2R2( ) | 200 | 1000 |
| | 3.3 | 8 | 11.5 | 60 | 0.20 | 0.6 | 3.5 | 5.0 | | ECA2VM3R3( ) | 200 | 1000 |
| | 4.7 | 10 | 12.5 | 65 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2VM4R7( ) | 200 | 500 |
| | 10 | 10 | 20 | 115 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2VM100( ) | 200 | 500 |
| | 22 | 12.5 | 20 | 195 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2VM220( ) | 200 | 500 |
| | 33 | 16 | 25 | 300 | 0.20 | 0.8 | 7.5 | 7.5 | | ECA2VM330( ) | 100 | 250 |
| | 47 | 16 | 25 | 325 | 0.20 | 0.8 | 7.5 | 7.5 | | ECA2VM470( ) | 100 | 250 |
| | 100 | 18 | 31.5 | 535 | 0.20 | 0.8 | 7.5 | | | ECA2VM101 | 50 | |
| 400 | 2.2 | 8 | 11.5 | 50 | 0.20 | 0.6 | 3.5 | 5.0 | | ECA2GM2R2( ) | 200 | 1000 |
| | 3.3 | 10 | 12.5 | 54 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2GM3R3( ) | 200 | 500 |
| | 4.7 | 10 | 16 | 72 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2GM4R7( ) | 200 | 500 |
| | 10 | 10 | 20 | 115 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2GM100( ) | 200 | 500 |
| | 22 | 12.5 | 25 | 215 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2GM220( ) | 200 | 500 |
| | 33 | 16 | 25 | 275 | 0.20 | 0.8 | 7.5 | 7.5 | | ECA2GM330( ) | 100 | 250 |
| | 47 | 16 | 31.5 | 350 | 0.20 | 0.8 | 7.5 | | | ECA2GM470 | 100 | |
| | 100 | 18 | 40 | 600 | 0.20 | 0.8 | 7.5 | | | ECA2GM101 | 50 | |
| 450 | 2.2 | 10 | 12.5 | 44 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2WM2R2( ) | 200 | 500 |
| | 3.3 | 10 | 16 | 60 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2WM3R3( ) | 200 | 500 |
| | 4.7 | 10 | 20 | 79 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2WM4R7( ) | 200 | 500 |
| | 10 | 12.5 | 20 | 130 | 0.20 | 0.6 | 5.0 | 5.0 | | ECA2WM100( ) | 200 | 500 |
| | 22 | 16 | 25 | 210 | 0.20 | 0.8 | 7.5 | 7.5 | | ECA2WM220( ) | 100 | 250 |
| | 33 | 16 | 31.5 | 285 | 0.20 | 0.8 | 7.5 | | | ECA2WM330 | 100 | |

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